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I. R. PETROV'S WORK IN FIELDS OF PATHOLOGICAL PHYSIOLOGY
 AND BLOOD TRANSFUSION

M. K. Danilov, A. A. Zor'kin,
 Ye. V. Gubler, V. K. Kulagin

I. R. Petrov, Head of the Chair of Pathological Physiology, Military
 Medical Academy imeni S. M. Kirov and Corresponding Member of the Academy
 of Medical Sciences USSR, reached the age of 60 on 22 September 1953.

Petrov graduated from the Military Medical Academy in 1922. While still
 a student at the academy, he became greatly interested in pathological
 physiology. When still a 3d-year student, he was appointed assistant instruc-
 tor on the staff of the Chair of Pathological Physiology, which was then
 headed by Academician N. N. Anichkov. Petrov was active as instructor and
 senior instructor under Anichkov's direction until 1938. In 1939 he was
 elected Head of the Chair. At the same time, Petrov worked at the Leningrad
 Institute of Labor Hygiene and Occupational Diseases and at the Leningrad
 Institute of Blood Transfusion, where he organized the Division of Experimen-
 tal Pathology which he still heads.

Petrov is the author of more than 140 scientific works, among which are
 the monographs "Acute Blood Losses and Their Therapy by Means of Liquid Blood
 Substitutes" (1945), "Shock and Collapse" (1947), "Oxygen Starvation of the
 Cerebrum" (1949), "The Role of the Nervous System in Oxygen Starvation" (1952),
 and "Traumatic Shock, Its Pathogenesis, Prophylaxis, and Therapy" (1935).
 The investigation which forms the subject of the last-mentioned monograph
 has been conducted by Petrov together with S. I. Banaytis. A number of inves-
 tigations carried out by Petrov dealt with problems of electrical trauma, the
 effect of dusts on the organism, problems of cardiovascular pathology, and
 problems pertaining to the reticuloendothelial system. Twenty-five disserta-
 tions have been carried out under Petrov's direction.

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A characteristic trait of Petrov's scientific activity is the applicability of the results of his work from the standpoint of the practical needs of the Soviet public health service and of the military medical service. On the basis of his experimental research on shock, Petrov proposed in 1941 a blood substitute liquid for the comprehensive therapy of traumatic shock. This liquid has been applied extensively during the war, and in the postwar years. Of great theoretical and practical significance is Petrov's work on the effects of electric currents on the organism, the pathogenesis of oxygen starvation, and the principles of therapy to be applied in oxygen starvation.

Petrov pays considerable attention to teaching. He is the editor and one of the authors of "A Manual of Practical Work and of Demonstrations in Pathological Physiology" (1939, 1947).

In addition to his extensive scientific work and teaching, Petrov devotes a great amount of energy to public activities. He has been repeatedly elected a member of the Board of the Leningrad Society of Pathologists and is at present Deputy Chairman of the All-Union Society of Pathophysiologists.

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